

FIG. 1A

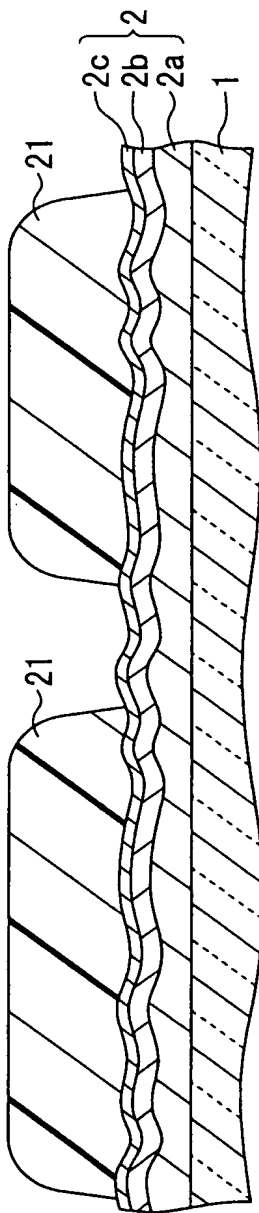


FIG. 1B

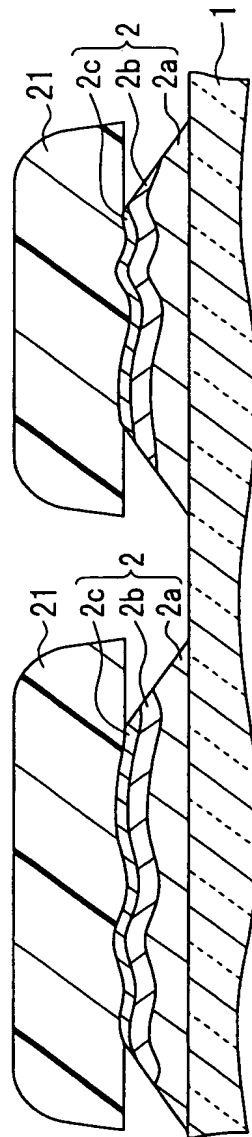


FIG. 1C

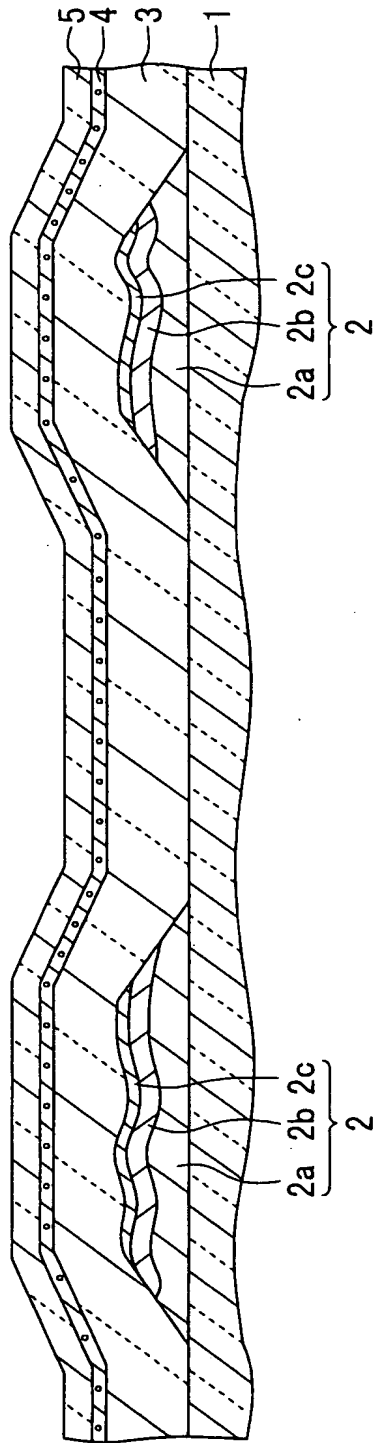


FIG. 1D

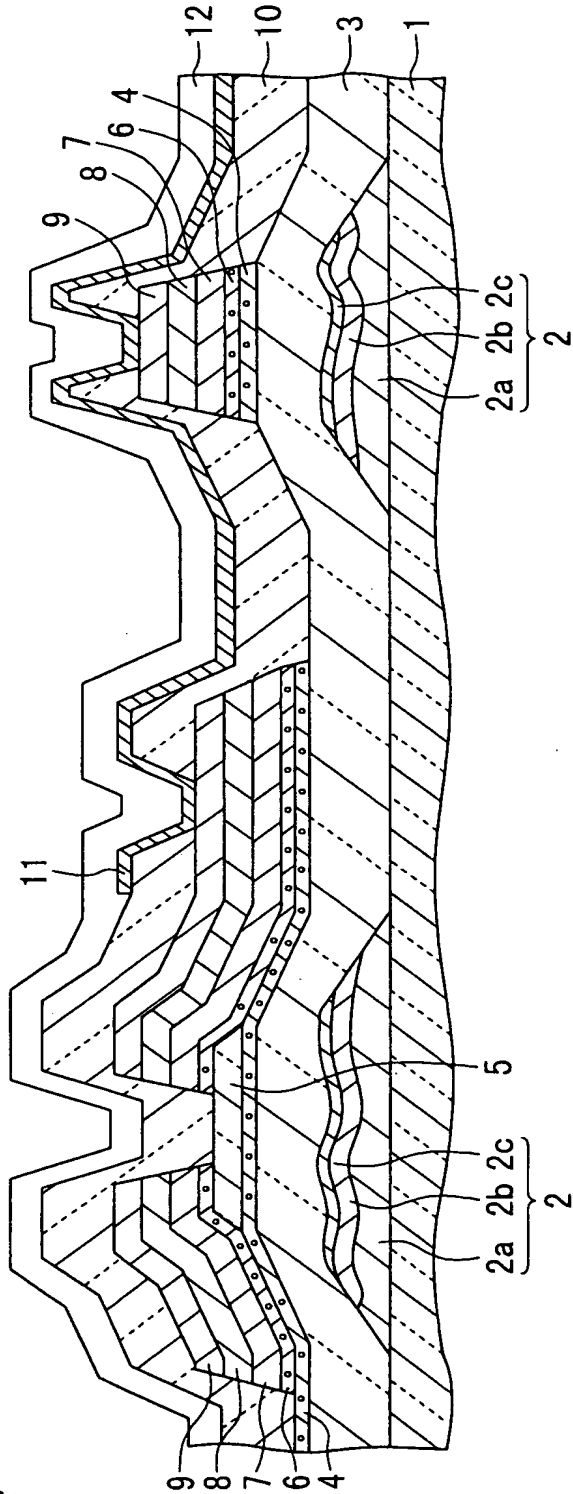


FIG. 1E

FIG.2

		NUMBER OF WHISKERS FORMED ON EACH SUBSTRATE	SURFACE ROUGHNESS Ra (nm)
SAMPLE A	SUBSTRATES WITH HEATING	0	3.39
SAMPLE C	SUBSTRATES WITHOUT HEATING	203	0.99

FIG.3A

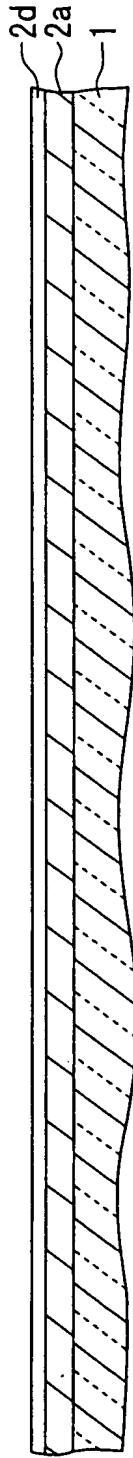


FIG.3B

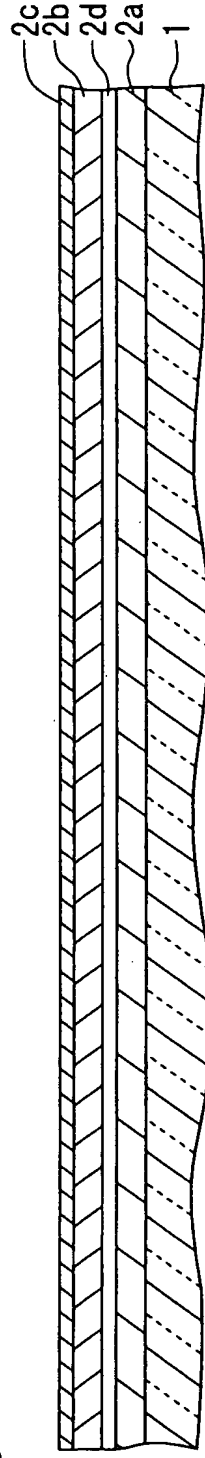


FIG.3C

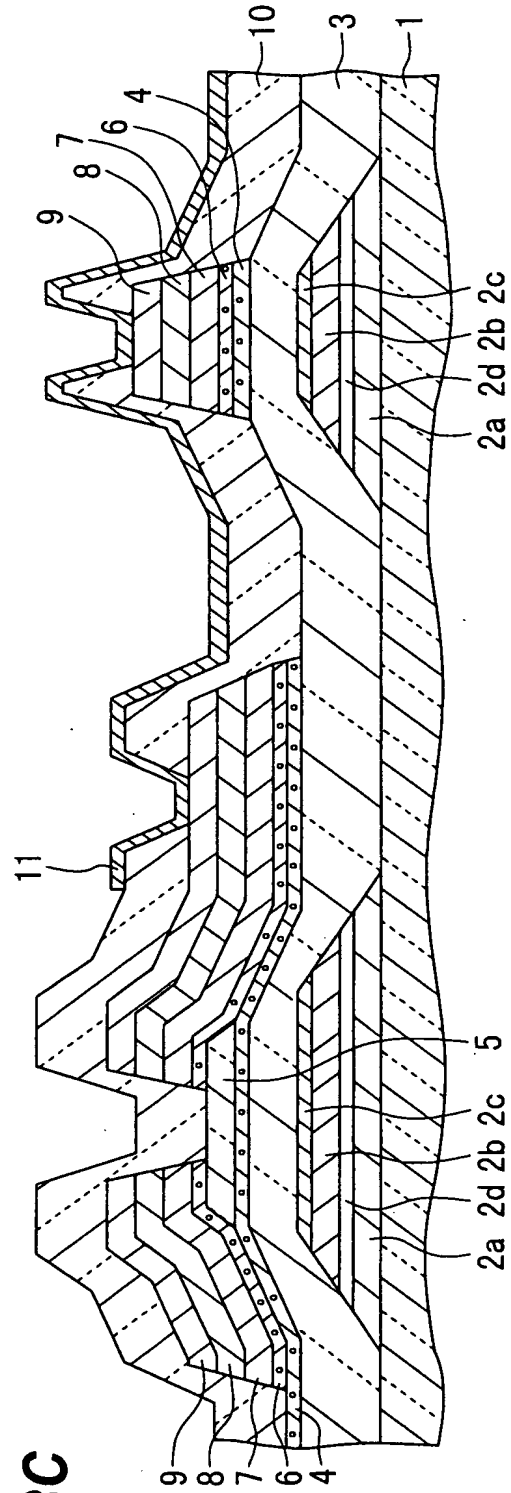


FIG.4

		NUMBER OF WHISKERS FORMED ON EACH SUBSTRATE	STRESS (MPa)
SAMPLE B	WITH Al OXIDE LAYER	0	83.4
SAMPLE C	WITHOUT Al OXIDE LAYER	203	212.3

FIG.5A

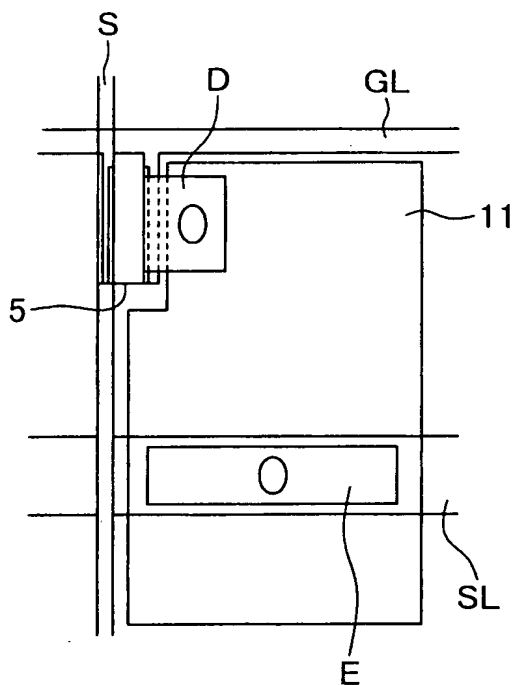


FIG.5B

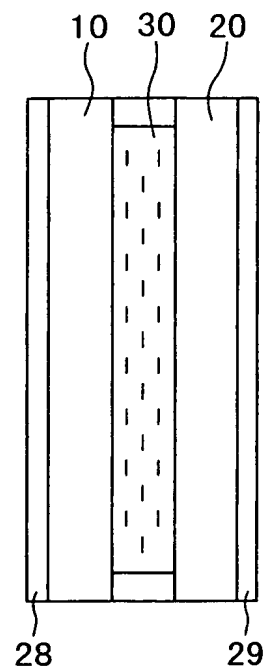


FIG.5C

